Serial No. 10/511,728 Amendment dated April 14, 2010 Reply to OA of Oct. 14, 2009

IN THE CLAIMS:

- (Currently Amended) A drive unit comprising a DC motor having a 1. rotor consisting of a plurality of coils connected to a commutator in connection with a set of brushes to establish a voltage across the coils, said DC motor, via a transmission, driving an adjustment means for adjusting an adjustable element in a structure in which the drive unit is incorporated, a power supply for driving said drive comprising a transformer having a primary side for connection to a mains voltage (alternating current) and a secondary side with rectification and smoothing for connection to the DC motor, a first control means to compensate for loss in the motor, thereby maintaining a speed thereof constant for a first period of time, a second control means that removes ripples in the voltage, thereby maintaining the speed of the motor constant for a second period of time, said second period of time being shorter in duration than said first period of time, and including an astable timer having a duty cycle which is controlled by output voltage and adjusted by input voltage, and wherein said first period of time is 30 msec. to 1 sec. and said second period of time is less than 10 msec.
- 2. (Cancel)
- 3. (Currently Amended) A drive unit comprising a DC motor having a rotor consisting of a plurality of coils connected to a commutator in connection with a set of brushes to establish a voltage across the coils, said DC motor, via a transmission, driving an adjustment means for

adjusting an adjustable element in a structure in which the drive unit is incorporated, a power supply for driving said drive comprising a transformer having a primary side for connection to a mains voltage (alternating current) and a secondary side with rectification and smoothing for connection to the DC motor, a first control means to compensate for loss in the motor, thereby maintaining a speed thereof constant for a first period of time, a second control means that removes ripples in the voltage, thereby maintaining the speed of the motor constant for a second period of time, said second period of time being shorter in duration than said first period of time, and including an astable timer having a duty cycle which is controlled by output voltage and adjusted by input voltage, wherein the second control means provides a forward step in which a duty cycle is expressed by k and V_{in}, and a power step in which V_{out} is expressed by V_{in} and the duty cycle, wherein the result of the forward step and the power step is $V_{out} = K$, and wherein V_{in} is an input voltage from the rectification, Vout is an output voltage from the power step, k is a constant given by actual circuits for the forward step and the power step, and wherein the duty step is the proportional time for which the power supply is loaded during a given period of time The drive unit according to claim 2, wherein the forward step is given by[\div] duty cycle = K/V_{in}, and the power step by[\div] $V_{out} = V_{in} * duty cycle.$

(Currently Amended) A drive unit comprising a DC motor having a 4. rotor consisting of a plurality of coils connected to a commutator in connection with a set of brushes to establish a voltage across the coils, said DC motor, via a transmission, driving an adjustment means for adjusting an adjustable element in a structure in which the drive unit is incorporated, a power supply for driving said drive comprising a transformer having a primary side for connection to a mains voltage (alternating current) and a secondary side with rectification and smoothing for connection to the DC motor, a first control means to compensate for loss in the motor, thereby maintaining a speed thereof constant for a first period of time, a second control means that removes ripples in the voltage, thereby maintaining the speed of the motor constant for a second period of time, said second period of time being shorter in duration than said first period of time, and including an astable timer having a duty cycle which is controlled by output voltage and adjusted by input voltage, wherein the second control means provides a forward step in which a duty cycle is expressed by k and Vin, and a power step in which Vout is expressed by Vin and the duty cycle, wherein the result of the forward step and the power step is $V_{out} = K$, and wherein V_{in} is an input voltage from the rectification, Vout is an output voltage from the power step, k is a constant given by actual circuits for the forward step and the power step, and wherein the duty step is the proportional time for which the power supply is loaded during a given period of

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<u>time</u>The drive unit according to claim 2, wherein the forward step is given by $[\div]$ duty cycle = V_{in}/k , and the power step by $[\div]$ $V_{out} = V_{in}/duty$ cycle. 5-7. (Cancel)